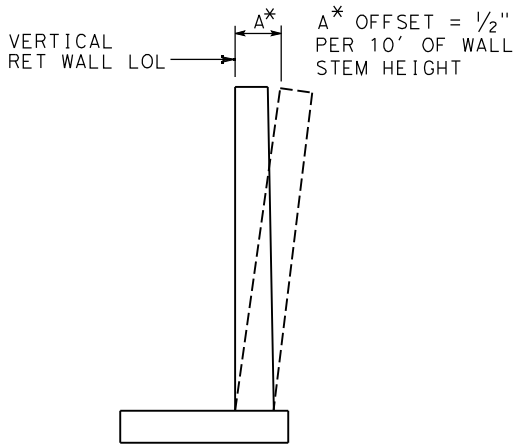


ELEVATION
No Scale

NOTES:
"ha", "hb" above #5 bars indicate distance from top of footing to upper end of #5 bars, see table.
"S" is #5 bar spacing, see table.



WALL OFFSET
No Scale

Values for offsetting forms to be determined by the Engineer

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments

WS: 33 psf on Sound wall
LS: Varied surcharge on level ground surface

EQE: Mononabe-Okabe Method
 $K_h = 0.3$
 $K_v = 0.0$

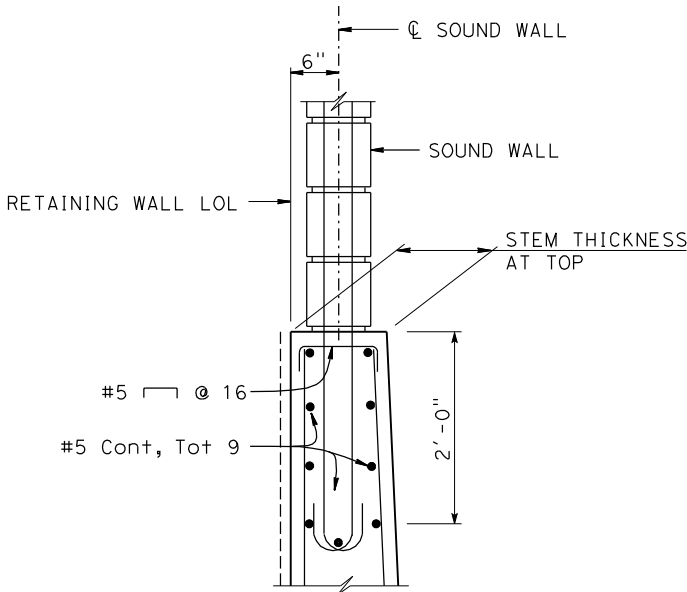
Soil: $\phi = 34^\circ$
 $\gamma = 120$ pcf

Reinforced Concrete: $f'_c = 3600$ psi
 $f_y = 60,000$ psi

Load Combinations and Limit States

Service I $Q=1.00DC+1.00EV+1.00EH+1.00LS+0.30WS+Td$
Service II $Q=1.00DC+1.00EV+1.00EH+1.00WS+Td$
Strength I $Q=aDC+\beta EV+1.50EH+1.75LS+Td$
Strength III $Q=aDC+\beta EV+1.50EH+1.40WS+Td$
Strength V $Q=aDC+\beta EV+1.50EH+1.35LS+0.40WS+Td$
Extreme I $Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE+Td$

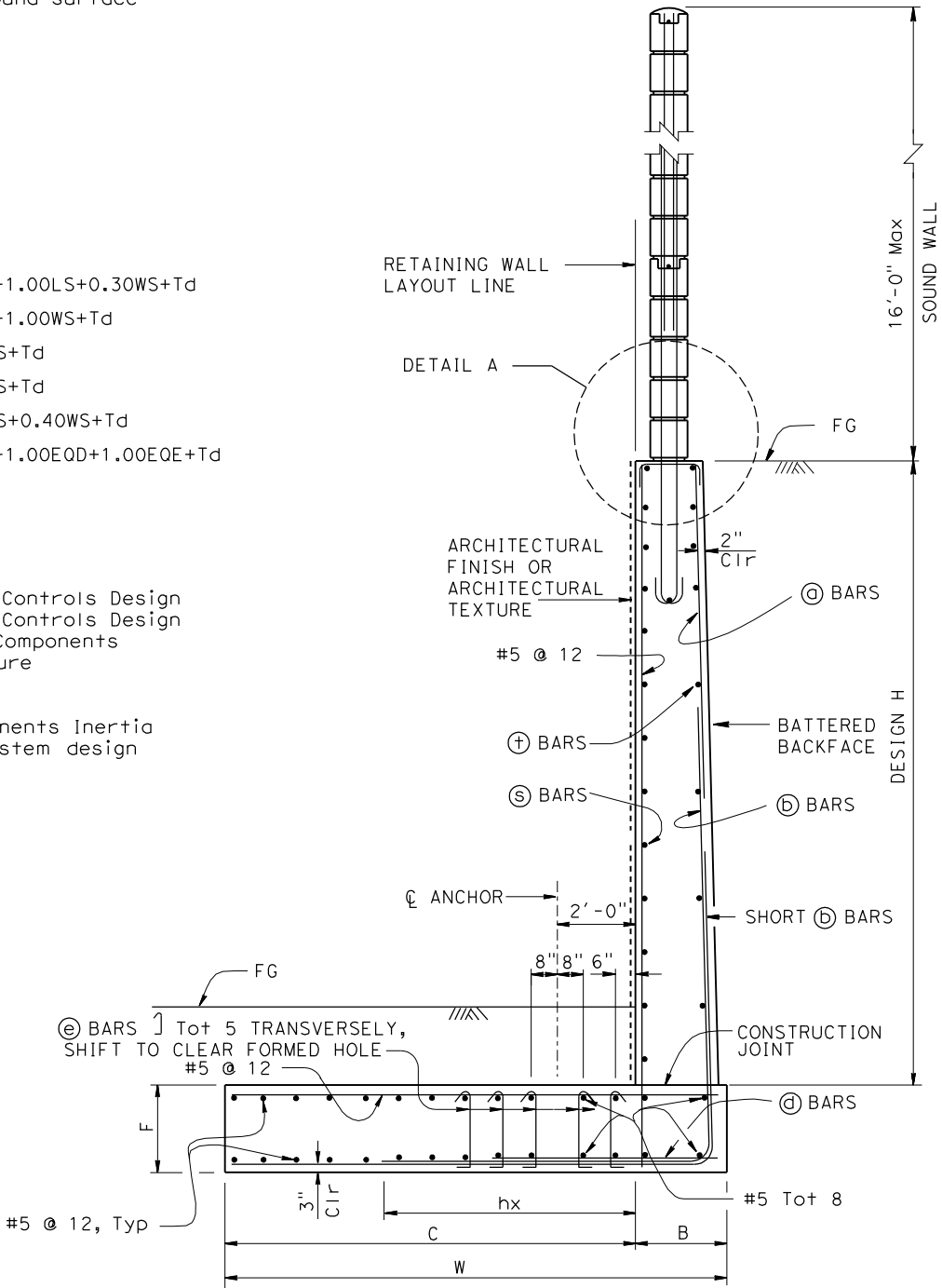
Where: Q: Force Effects
a: 1.25 or 0.90, Which ever Controls Design
B: 1.35 or 1.00, which ever Controls Design
DC: Dead Load of Structure Components
EV: Vertical Earth Fill Pressure
LS: Live Load Surcharge
EQE: Seismic Earth Pressure
EQD: Soil and Structure Components Inertia
Soil inertia ignored for stem design
WS: Wind Load on Sound wall
Td: Anchor Design Load



DETAIL A
1" = 1'-0"

NOTES:

- For Sound wall and Retaining wall Architectural finish or texture see Details elsewhere in Project Plans
- For Details not shown and Drainage Notes see 3-5
- Footing cover, 2'-0" minimum.
- For Sound wall reinforcement details, see "SOUND WALL - MASONRY BLOCK ON RETAINING WALL" sheet.
- Shift #5 bars and #5 bars as required to clear formed hole for ground anchor.
- Footing is designed to resist 1.33 Id assuming the maximum anchor spacing shown in the table.



SPREAD FOOTING SECTION
No Scale

STANDARD DRAWING	
FILE NO. xs14-380-1	APPROVAL DATE July 2011

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF
ENGINEERING SERVICES

BRIDGE NO.
X
POST MILE
X

X
RETAINING WALL TYPE 7SW - DETAILS NO.1

UNIT: X
PROJECT NUMBER & PHASE: X

CONTRACT NO.: X

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES	SHEET	OF
	X	X

FILE => \$REQUEST

DATE PLOTTED => \$DATE
USERNAME => \$USER
TIME PLOTTED => \$TIME